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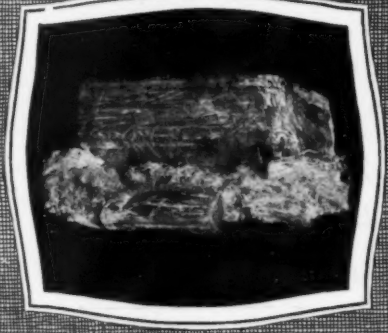
Vol. 7 MARCH 1926 No. 9



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... ASBESTOS ...

A MONTHLY MARKET JOURNAL

DEVOTED TO THE INTERESTS OF THE ASBESTOS AND MAGNESIA INDUSTRIES

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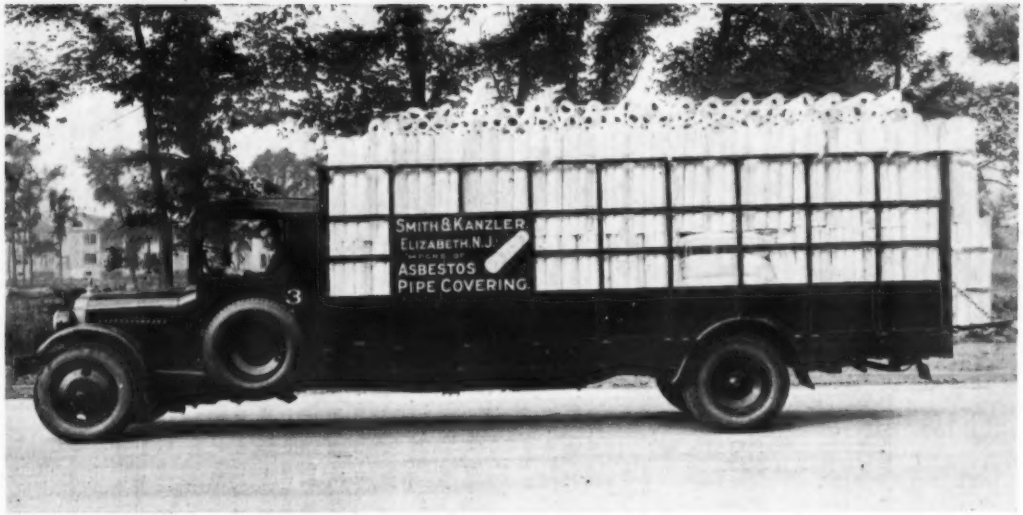

Need for a fast motor vehicle capable of holding bulky but not heavy loads of asbestos products destined for distant points with the least amount of bumping led Smith & Kanzler, manufacturers of pipe coverings, of Elizabeth, N. J., to buy this Mack bus chassis on which is mounted a 20 x 8 foot rack body.

The Development of Robertson Process Metal

(Contributed)

Asbestos with its long lasting qualities has become a potent factor in the cutting down of maintenance costs on industrial buildings. Each year new uses are found in the field of building construction, not only for asbestos by itself, but also for asbestos in desirable combinations with other materials.

The increased use of asbestos is particularly evident nowadays in the field of roofing materials and roof construction, and the possibilities of asbestos along these lines are nowhere more impressively shown than in the development and use of the roofing (and siding) material formerly designated as Asbestos Protected Metal and now called Robertson Process Metal.

The beginnings of Robertson Process Metal date back to 1905, but the product as originally manufactured was *only a beginning* and not at all comparable in enduring qualities to the material as it is manufactured and used today.

The story of development of Robertson Process Metal should be, however, of very real interest to those who are concerned with the characteristics and uses of asbestos, for the original manufacturers of Robertson Process Metal were among the pioneers in the use of asbestos as roofing material.

The originators of the material had a very definite ideal toward which they were working. They purposed to develop a building covering material that would embody four characteristics which, in combination, would provide a roofing material as close to perfection as possible. The four characteristics they sought were *strength, light weight, adaptability and durability.* The individuals who developed Robertson Process Metal answered the first three requirements and solved three-fourths of their problem at the very outset by the selection of steel sheets as a base for their roofing material.

As a matter of fact, if strength, light weight and

pipe coverings, of Elizabeth, N. J., to buy this Mack bus chassis on which is mounted a 20 x 8 foot rack body.

adaptability were the only characteristics to be considered, ordinary unprotected steel sheets would leave nothing to be desired. No building material offers such an ideal combination of strength and lightness as steel sheets—for steel has more strength per pound of weight and per cubic inch of volume than any other building material available. Then, too, there is no more adaptable building material than steel sheeting. Because they are easily cut and formed steel sheets can be readily adapted and fitted to the roofing and siding requirements of industrial buildings of wide variety of types and forms. These are the reasons why corrugated sheets of various kinds are so widely used as roofing and siding on plant buildings in many industries.

But ordinary steel sheets—in fact sheets of any unprotected metal,—fall short when it comes to durability. Even when painted periodically and frequently, they cannot resist the many deteriorating influences to which they are constantly exposed on industrial buildings. Rust and corrosion rapidly eat away their life and efficiency. So the idea the manufacturers of Robertson Process Metal had was to take these light, strong, adaptable sheets of steel, and add to them the one essential characteristic they lacked, that is durability—ability to resist corrosive influences. And here is where asbestos entered the picture.

The plan was to encase steel sheets in protective coatings which would permanently shield the metal from corrosive influences. Quite naturally, asbestos was among the materials selected for this purpose—another was asphalt. These two materials in combination proved themselves ideally adapted to the job they were required to do.

The original product was made by dipping the steel sheets in molten asphalt and then pressing a layer of asbestos felt on each side of the coated sheet to protect the asphalt. The idea of the asphalt was to shield the steel from the corrosive action of moisture, fumes and air,—and it was a sound idea, for asphalt is the best waterproofing material known today. The function of the asbestos felt was equally important. It was, in turn, to protect the first, or asphaltic coating from weather and abrasion.

The product as originally manufactured was not en-

tirely satisfactory—but it was a step in the right direction. The asbestos felt alone was not sufficiently resistant to continuous weather exposure. Several years of experimental work followed and vital improvements were made. The asbestos felt was saturated with asphalt before application. Then over all was put a final waterproofing envelope made of a special compound. In 1916 Robertson Process Metal in its improved form (and just as it is now manufactured) was put on the market. In this material the manufacturers had achieved the four-fold result they were seeking—that is, a roofing material combining the four desirable characteristics of light weight, strength, adaptabilty and permanence.

So Robertson Process Metal, as it is made today, consists of a core of sheet steel (corrugated, flat or mansard) over which three impervious protective coatings are laid. First, the steel is incased (both surfaces and edges) in a fumeproof layer of asphalt. Over this comes the layer of asphalt-saturated asbestos felt. Saturated with asphalt the asbestos felt performs its protective function ideally because the asphaltic saturant makes the asbestos felt adhere to the coatings over and under it and because both asphalt and asbestos are entirely neutral to the destructive action of acids and alkalies. The asbestos felt coating is pressed onto both sides of the sheets and folded over the edges, the steel being thus completely sealed in. The asbestos felt coating performs another valuable function which should not be overlooked. Robertson Process Metal has a very considerably higher heat insulating value than ordinary unprotected metal sheets and for this important advantage the asbestos felt coating is largely responsible.

The final coating of Robertson Process Metal consists of a special compound applied under heat and pressure. This outer coating is also ideally adapted to the purpose it is designed to fill, for being entirely moisture proof and not susceptible to the corrosive action of acids and alkalies it offers permanent resistance to the deteriorating effects of weather exposure and other deteriorating influences. And another great advantage of the outer coating lies in the fact that it never requires painting. It main-

tains its original color (black or red as specified) during long periods of service.

Robertson Process Metal, as it is made today, is a permanent material in every sense of the word. It has proved itself both in theory and practice. Original installations of the present day material applied back in 1916 are still in good condition, altho they have been exposed to the severest conditions of service.

Robertson Process Metal has all the strength and light weight advantages of ordinary steel sheets. And it is just as adaptable. It can be cut and formed just as easily. It is readily formed into flashings, ridge rolls, louvres, ventilators, metal parts of skylights, etc. It will span with a wide margin of safety all standard purlin spacings.

The manufacturers of this material now furnish the material at the building site pre-fabricated for immediate erection, that is, all the sheets and details are cut and formed at the factory to exactly fit the spaces they are designed to fill.

This roofing material is now so widely used in practically every field of industry that it involves the annual use of very large quantities of asbestos. It is manufactured in England and Canada as well as in the United States, and is being used as a covering for industrial buildings all over the world.

The story of Robertson Process Metal is indeed one of great interest and significance to all individuals who are interested in asbestos. It is a striking example of the almost limitless possibilities of asbestos in the field of industry. It illustrates how asbestos can be combined with other materials to achieve results which otherwise could not be obtained. For while three other materials go into the manufacture of Robertson Process Metal, this enduring roofing material would not be possible without asbestos.

Anyhow, we can be thankful that there aren't any Asbestos Mines in Mexico.

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Asbestos Roof Cements
Asphalt Pitch

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FACT AND FANCY

Unpremeditated Benefits of Underwriters' Laboratories Tests.

The primary purpose of fireproof and other tests conducted by the Underwriters' Laboratories of Chicago is protection of the public, and their work is daily becoming recognized more and more as a necessary and important one.

The Laboratories claim, however, that their tests result in other benefits to the public besides protection. For instance, the tests developed on various kinds of roof coverings have resulted in more precise knowledge of the fire retardant value of the better roof coverings, and have also encouraged the development of relatively low-priced prepared roofings.

A new variety of roof covering was tested and reported upon in 1925—that of copper shingles over asbestos felt.

Another significant service performed by the Underwriters' Laboratories is the revising of specifications for asphalt rag felt prepared roofing and shingles, these specifications having been compiled by the Laboratories in co-operation with the manufacturers, the American Society for Testing Materials and the Federal Specifications Board.

The Laboratories have also rendered service by consulting with civic and commerce associations, fire prevention committees and city councils regarding ordinances specifying the character of roof coverings.

The Improvement in Trade Associations.

Without a doubt trade association work is becoming recognized by everyone, from Government to public, as a necessary, important part of business, and we should not be at all surprised to see the day when trade association work will be encouraged by Government rather than the reverse.

This is due not to the gradual realization of the Government and the public of the resultant benefit of trade associations, but to the fact that the aims and ideals of

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■

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IMPORT

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trade associations themselves have been undergoing a very decided improvement.

We could not better portray this improvement than in the words of Frank A. Merrill, President of the Heating and Piping Contractors National Association, who says: "Expressed in a few words, the change is from a somewhat narrow, selfish motive, to a broad and altruistic one of public service. Not that we have ceased working for better conditions ourselves but that we are fast finding out that we get quicker and more permanent results when we broaden our program so as to materially benefit and serve the public at large."

But, to again quote Mr. Merrill, "One of the greatest drawbacks to association work is the fact that a few hard workers have to do most of the thinking and planning and too many sit back and let them do it."

When business men get the true slant on trade association work—the realization that the more they help others in their industry, the more they themselves will benefit, then will the trade association come into its own.

Interesting Facts on the Motor Industry.

On January 1st, 1926, there were registered thruout the world, 25,973,928 motor vehicles of all kinds, and of these, 19,999,436 are accredited to the United States. The tremendousness of the motor industry in this country is further illustrated by the fact that the country showing the next largest registration, is the United Kingdom—1,474,573.

Another interesting item is the fact that 80,000 busses were registered in the United States, France, with 35,000, occupying second place. The motor bus is fast becoming a vital factor in transportation, and, judging by the fine service performed by it during the February blizzard, a most satisfactory one. In Boston the motor bus was practically the only line of transportation kept running during the blizzard. As the National Automobile Chamber of Commerce says: "If it ran into trouble it could back out of it and proceed around the obstruction. If it could not make headway on one street it made it on another."

"A car for every family" movement was sponsored

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by the Second World Motor Transport Congress held in New York during January, and judging by the increasing numbers of cars on our streets and country highways, the United States at least is rapidly nearing this goal.

The Low Average on Crude.

One of our readers calls our attention to the rather peculiar results given by our figures in the February number showing imports of Crude Asbestos from Canada.

We stated that during November 1,486 tons of Crude, valued at $127,708, were imported from Canada. As a matter of fact these figures were, as usual obtained from the U. S. Customs and so far as we are concerned, are correct. But, if you figure out the average price on a ton of Crude from these figures you will arrive at the very low price of $85.90 per ton.

And the figures for Mill Fibre and lower grades also show very low averages.

Figures for previous months show averages of from $147, to $162 per ton, which, while not high, are very much better than the $85.90.

The U. S. Customs are, at our suggestion, checking their figures in an effort to verify or correct them, but in the meantime would appreciate suggestions from anyone explaining this very low average for Crude.

Asbestos Mining or Milling Articles.

We are very desirous of obtaining one, two or more, really good articles covering some phase of Canadian Mining or Milling, for which we will gladly compensate the author at our regular rates. These articles should run not more than one thousand to twelve hundred words, but if the subject selected is too long to treat adequately in that space, a series of two or three of the thousand word length will be acceptable. The articles should, if possible, be accompanied by photographs or drawings, not more than three to an article, for which an extra compensation will be paid.

If you are not equipped to write such articles yourselfs, bring this to the attention of some of your engineering friends who would like to make a little extra money.

MARKET CONDITIONS

General Business. The general business situation is fairly satisfactory.

Many distributors of motor cars have been pleased at the increased sales during the past month, and the outlook in this industry from the distributor's standpoint, is better than it has been for some time. When analyzed this means that the men who are buyng new cars either are experiencing good business in their various lines of endeavor, or else they regard the near future in their particular lines as promising.

The new tax bill is passed, and eliminates the excise tax on parts, accessories, etc., also reducing the passenger car tax, both of which should favorably affect the already promising outlook in the automobile industry.

The anthracite strike is settled, one thing less for the business man to worry about.

Building construction as viewed from statistics on building permits shows that volume of new construction during January exceeds that of any corresponding period on record—and January is never a pleasant month. Altogether no complaining is in order.

Raw Material. A shortage of raw material is generally an indication of good business, and if this theory is correct, then the Asbestos Industry, particularly certain portions of it, are in for a prosperous year. Not since the war has there been such a scarcity of material, altho this is particularly true of the shorter grades rather than of Crudes.

Mr. E. J. Wilson comments very briefly this month on the raw material situation, as follows:

"Shipments of all grades of asbestos from Thetford Mines in February were one third less than in December, all grades being affected. Of crude asbestos only thirty-three tons of No. 1 and one hundred and seven tons of No. 2 were shipped. It is necessary to go back over two years to find so poor a month. There may be some significance in these figures."

It is becoming a question whether the merger will

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Asbestos Fibre Mines, Black Lake

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accomplish the result hoped for, and if not, whether the good which has resulted or will result from it, will be sufficient compensation for the time and effort expended to put it thru.

A great deal of activity is being noticed in the Arizona field, and change of ownership of the Porcupine properties in Ontario will probably result in larger production in that region.

Reports from Africa tell of a very keen demand for Blue Asbestos the supply not nearly equal to the demand. Prices on this variety have increased considerably, especially for the shorter and discolored fibre. There is a decided shortage on long blue fibres.

Manufactured Goods. We find textiles more active than formerly, brake lining as usual showing good volume. (Orders coming in better than usual one manufacturer reports). Paper and Air Cell business is reported by at least some of the manufacturers as very good.

The shingle season will not really open for another month but every indication is that it will be satisfactory from a volume point of view. With new firms constantly entering this line it is a question whether, by the time the entire volume is divided between the various manufacturers and importers, the share of each will be satisfactory from his own individual viewpoint.

As a matter of fact, from our vantage point we have not for a long time seen so much real activity displayed in the Industry as is being shown at the present moment.

Our English correspondent reports that:

The general market situation in England is unchanged. Prices remain on the low side and as yet the higher prices for raw material have not been reflected in the prices of manufactured goods.

The Shipping Industry recently received a fillup by the receipt of orders for a number of ships of various kinds, both on the Clyde and on the Tyne, but it is too early yet for the influence of this new business to be felt in the Covering Trade.

Inquiries for Brake Lining are rather more numerous

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Yellow or Blue
South African

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Works: MILLINGTON, N. J.

owing to the impetus given to the Motor Industry by the recent tariff. The Motor Industry is one of the few in this country (England) that has shown a rapid advance during the last two or three years, and especially during recent months.

Carey's New Asbestos Shingle Plant

Production is now in full swing at the newly completed asbestos shingle mill of The Philip Carey Company at Lockland, Ohio. In construction and equipment this plant is probably the most modern of its kind in the country. Practically all of the equipment was specially made, embodying many improvements never before used.

Output will not be limited to asbestos shingles but will include corrugated asbestos roofing and siding as well as flat lumber and wallboard.

We hope to publish photograph and further description of this plant in either the April or May number.

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WRITE FOR PRESENT PRICES

This page devoted each month to the discussion of brake lining activities by O. B. Towne, Commissioner of the Asbestos Brake Lining Association

The manuscript for the 1926 edition of the A. B. L. A. Brake Lining and Clutch Facing Data Book has been completed and is in the hands of the Franklin Printing Company of Philadelphia, being set up. The books this year will be a trifle larger because of the new 1926 specifications. Incidentally there are a number of new cars, about half a dozen of them. Of course there are a dozen or so models which are discontinued. This makes very little difference because all specifications for the older models will still be included. The cars of the older models are still in use and will need brake and clutch lining repairs.

So far, the edition will be of approximately 150,000 copies. This is by far the most pretentious work done by the Association and this year, the book will cover more ground than ever before. The book will be off the press and ready for distribution about the first of May. With good luck it will be ready before that.

Some criticism has been heard regarding some of the brakes used on some of the cars because of scored drums. The fault has been laid at the door of Asbestos Brake Lining; and the Association has gone into this matter because those who know are firmly of the opinion that the real cause is the carbon content of the steel brake drum. This is admitted by steel men and so the determination of the carbon content which will produce the best steel brake drum is being studied. The results of this study are being watched with much interest.

Arnold A. Mowbray, formerly Commissioner of the Asbestos Brake Lining Association, is back on the job again in the publicity office of the National Safety Council at Chicago. Mr. Mowbray took a month's vacation this last winter and traveled extensively thru Cuba and Yucatan. He reports a most enjoyable trip.

AUTOMOMILE PRODUCTION

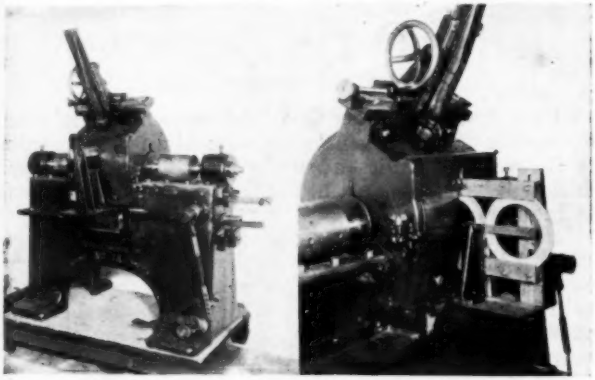
The February production of motor cars in the United States and Canada showed a gain of 15% over January—364,618; this also being 27% better than February 1925.

The heavy snows in many localities slowed up sales, but now that the winter is practically over, sales should show a decided gain.

A Grinding Fixture for Asbestos Clutch Rings

Because of the remarkable development of the Disc Grinder during the past few years, new fields are constantly being discovered where this equipment can be used advantageously.

Not so long ago the Gardner Machine Company, large manufacturers of grinding and polishing machinery in



Beloit, Wis., adapted one of their grinding machines to the facing of asbestos clutch rings. The successful disc grinding of these rings, because of the unusual character of the material involved, is a rather difficult matter, or was until the Gardner Machine solved the problem.

It is necessary to grind both sides of the rings to bring them down to the proper thickness and insure parallelism. The machine used is a No. 14-20" Gardner Double Disc Grinder, equipped with special fixtures for the purpose. The photographs give two views of the machine, one showing the rings in the process of being ground.

The rings are passed between the two opposed cutting members, thus grinding the two sides simultaneously. Hand feed is used rather than automatic because of the extreme

flexibility of the material. Even by hand feed the cost of grinding these rings is very much less than by methods previously used.

An idea of the speed may be gathered from the fact that on a ring 9¾" O. D. x 6¾" I. D., with a stock removal of from .020" to .030" the machine grinds 400 rings an hour, holding them within .004" for parallelism and within .005" for uniformity, one ring to another.

Already many manufacturers of automobile clutch rings are reducing their costs by the use of the Gardner Disc Grinder.

Grading of Asbestos

(From a Correspondent)

Now that the merger is a "fait accompli", is it not possible for the Asbestos Corporation Limited to coordinate the various grades of crudes and fibres on a basis which will be simple and intelligible to all connected with the Industry?

Beginning with Crudes, the length of Numbers 1 and 2 should be specifically known. Hitherto a Crude from one mine has been quite different in length as well as quality, from the Crude from another mine. Is there any reason why, for instance, all No. 2 Crude should not be known in future as being within the limits of ½ inch to ¾ inch in length, and No. 1 Crude from ¾ inch to 1 inch in length upwards?

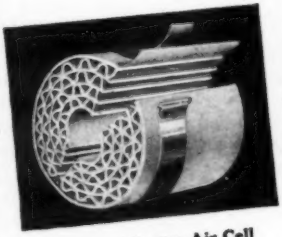
Coming to the fibres, would it not be possible to reduce the number of grades and to give each grade a distinguishing name or figure that would indicate to the world at large exactly what it stands for. To illustrate, we have:

Bell's A Spinning Fibre testing 3-8½-3½-1
Bell's B Spinning Fibre testing 2-8-4½-1½
King's 2B Spinning Fibre testing 4-7-4-1
King's X Spinning Fibre testing 1-8-6-1

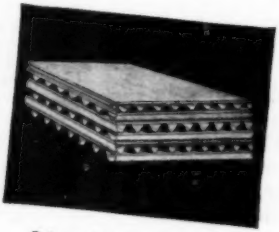
There are, of course, other grades, but those mentioned illustrate the difficulty to the ordinary man of differentiating between these two important mines.

The truth is that unless one knows the actual test of

INSULATING MATERIALS OF THE BETTER TYPE



Sal-mo Asbestos Air Cell Covering



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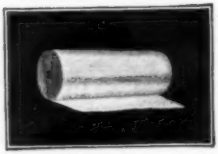
Sal-mo Asbestos Cement



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the particular fibre offered by the various mines, one can form no idea of the quality of the material. Why not classify the fibres under the headings of 1, 2, 3, 4, 5, 6 and so on, giving to each of these numbers a specific and determined test for all mines? It would surely be better for the seller as well as for the buyer.

In course of time this classification could, without difficulty, be extended to the asbestos material coming from other fields, such as Rhodesia, Australia, South Africa, etc. In all these countries the fibres have their own distinctive marks and letterings, with the result that very frequently there are misunderstandings in the minds of the public as to what is really meant. For instance, South African X fibre is a vastly different proposition from King's X, and Amosite B. 2 is as far removed from King's 2 B as it could possibly be.

Perhaps some of our readers and particularly the Canadian Mine Owners will take up this point with a view to rectifying a somewhat absurd and archaic position.

EDITOR'S NOTE: Will our readers comment on the above?

High-Grade Asbestos Textiles

CARDED FIBRES
YARNS, CORD, MANTLE YARNS
PLAIN AND METALLIC CLOTHS
BRAIDED AND WOVEN TAPES
BRAIDED TUBINGS
WOVEN SHEET PACKINGS
WOVEN BRAKE LININGS
GLOVES, MITTENS, LEGGINS
GASKETS, SEAMLESS AND JOINTED
PACKINGS, STEM AND HIGH PRESSURE
WICK AND ROPE

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EAST BROUGHTON, PROVINCE *of* QUEBEC
CANADA

CONTRACTORS AND DISTRIBUTORS PAGE

PROPAGANDA—SPEEDING THEM UP

Suppose each of your men received each week a small folder, or slip of paper, containing an attractively printed story, or article, showing how he could improve on his work, how he could cut out excess and tiring motion, could make a better looking job with very slight trouble. Then the next week he receives another slip giving a new suggestion.

Do you think the majority of the men would try to act on the suggestions? We believe they would—for a short time at least, and by that time they would have another suggestion made to them, via the slip. A procedure of this sort would excite interest, and if interested the man is going to do his work more efficiently, more quickly and with better results.

Anything that will excite the interest of men in their work, will give them something to think about, helps to raise the efficiency of the gang as a whole, makes them individuals instead of just a group of laborers.

One of the disadvantages of pipe covering labor is that the labor is almost always scattered. In an industrial plant workmen are more or less together all the time. They can be gotten together at short notice if need be. Much has been done in industrial plants by social gatherings, picnics, smokers, etc. Would things of this sort be attractive to the average pipe coverer and his family?

It might not be convenient or feasible for an individual contractor to try out a plan of this sort, but the contractor's association, working with every shop in a prescribed territory ought to be able to put it over.

Is there anything in the idea? Has any contractor or contractor's association ever done anything along this line?

Wage Notes. The New York City agreement between Asbestos Contractors and Pipe Coverers has not yet been signed but the men are working, conferences are being held and it is probable that an agreement carrying an increase in wage will be signed shortly.

The Agreement in force in the Texas cities expired March 1st, but up to time of going to press we have not heard whether a new agreement has been signed.

BUILDING STATISTICS

While contracts awarded in January showed a decided decrease over December, this was to be expected, and at that the total is by no means small—65,560,200 square feet of floor space, with a value of $457,158,000, as against December's figures of 74,851,500 square feet of floor space valued at $510,858,400.

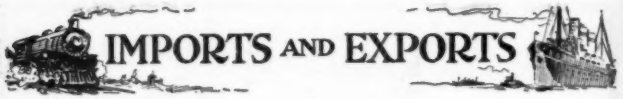
A Question of Policy

Asbestos dealers tell us that our policy of "Distribution Through Dealers" is the soundest and best policy.

We are manufacturers of high class insulating materials, and by concentrating all our efforts on manufacturing, we can better maintain the high quality of our products, and our policy of "Distribution Through Dealers" makes it possible for us to render a bigger and better service to the dealer.

Pipe coverings for every condition.

Norristown Magnesia & Asbestos Co.
Norristown, Pa.



Imports into U. S. A.

Unmanufactured Asbestos:

	December 1924		December 1925	
	Tons	Value	Tons	Value
From				
Africa (Br. S.)	29	$ 8,989	43	$ 4,694
Africa (Port. E.)	134	27,500	328	68,628
Canada	15,446	502,747	17,080	543,840
Germany	...	...	49	10,992
United Kingdom	...	...	64	8,966
	15,609	$ 539,236	17,564	$ 637,120

The material imported during December 1925 from the Africas, Germany and the United Kingdom, was all Crude, while that from Canada consisted of 572 tons Crude valued at $125,889; 7,307 tons Mill Fibre valued at $288,503; and 9,201 tons of lower grades, valued at $129,448.

Summary of the Year.—Unmanufactured Asbestos.

	1924		1925	
	Tons	Value	Tons	Value
From				
Africa (Br. S.)	929	$ 100,194	541	$ 50,350
Africa (Port. E.)	1,361	262,988	2,835	586,153
Canada	161,759	5,156,851	199,730	6,355,339
United Kingdom	372	67,201	541	111,880
Other Countries	139	14,640	171	30,580
	164,560	$5,601,874	203,818	$7,134,302

Manufactured Asbestos:

Yarn—

	December 1924		December 1925	
	Pounds	Value	Pounds	Value
Germany	760	964	...	...
United Kingdom	...	...	10,514	$ 3,485
Fabrics, Woven—				
Canada	8	26	...	...
United Kingdom	797	305	8,484	4,697
Packing, Fabric—				
United Kingdom	2,062	583	100	114
Packing, not Fabric—				
Austria	...	...	1,498	2,570
Canada	...	...	88	44

For setting fire brick, patching brick work, making rammed-in linings, and a wash for coating the face of the fire brick exposed to the heat. Best suited for use in furnaces, fire boxes and combustion chambers, where temperatures range from 2000° F. to 3200° F.

ALL-TEMP Cement is more refractory than the brick used. It slightly penetrates the brick at high temperatures, causing the brick work to become monolithic.

ALL-TEMP Cement will not glaze. It becomes semi-vitreous at about 1800° to 2000° F. and does not shrink until its melting point, which is in excess of 3300° F., is reached.

National Magnesia Mfg. Co.

544 Market Street

SAN FRANCISCO, CALIF.

ASBESTOS

	December 1924 Pounds	Value	December 1925 Pounds	Value
United Kingdom	...	...	607	775
Paper and Millboard—				
Canada	336	29	325	16
Shingles, Slate, Wood or Lumber—				
Belgium	166,662	$ 3,299	3,584,881	$ 56,443
France	...	...	44,275	779
Germany	162,262	2,534	124,495	2,332
Netherlands	...	...	1,620,589	26,906
Canada	14,637	1,819	54,360	1,182
	343,561	$ 7,652	5,428,600	$ 87,642
Asbestos Cement—				
Canada	...	...	80	6
Other Manufactures—				
Belgium	15,491	469	8,143	245
Canada	4,447	152	640	47
France	236,869	18,091	...	...
Germany	223	345	92,733	1,936
Japan	...	...	1,200	67
Netherlands	63,778	3,412	38,400	560
United Kingdom	9,869	3,832	9,858	2,189
	330,677	$26,301	150,974	$ 5,044
Grand Total All Manufactures	*678,201*	*$35,860*	*5,601,270*	*$104,393*

Summary for the Year.—Manufactured Asbestos:

	1924 Pounds	Value	1925 Pounds	Value
Yarn—				
Belgium	9,629	$ 1,019	...	...
France	...	...	228	$ 61
Germany	1,532	1,728	1,220	1,135
Netherlands	...	...	545	548
United Kingdom	3,742	3,031	41,323	13,289
	14,903	5,778	43,316	15,033
Fabrcs, Woven—				
Canada	95	174	51	59
Czecho-Slovakia	...	...	501	857
France	...	...	524	392
Germany	...	...	753	474
Netherlands	360	76	...	...
United Kingdom	71,031	28,052	108,147	56,843
	71,486	28,302	109,976	58,625
Packing, Fabric—				
Belgium	...	...	2,571	422

Nederlandsche Asbest My.

Importers of Asbestos
Crudes and Fibres

ROTTERDAM - HOLLAND

Tel. Address:
Nedam Rotterdam

P. O. BOX 803

Codes
A B. C. 5th Edition
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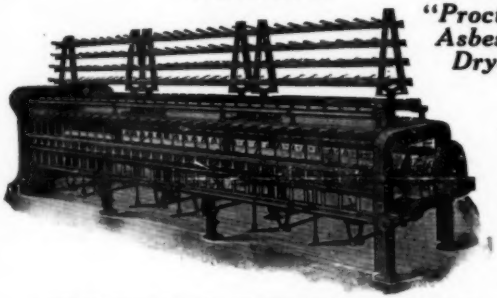
Lieber's Code

ASBESTOS YARN MACHINERY

"Smith-Furbush"

"Proctor" Asbestos Dryers



PROCTOR & SCHWARTZ, INC.

Formerly Smith & Furbush Machine Co.

Seventh St. & Tabor Rd., Philadelphia, Pa.

ASBESTOS

	1924		1925	
	Pounds	Value	Pounds	Value
Canada	87,346	2,456	...	...
France	200	281	660	75
Germany	2,027	384	...	...
United Kingdom	6,693	3,593	41,949	20,167
	96,266	6,714	45,180	20,664
Packing, Not Fabric—				
Austria	53,307	12,063	25,918	8,605
Canada	4	2	1,361	962
France	40	36	540	155
Germany	503	320	5,248	1,111
United Kingdom	5,814	1,598	1,346	997
	59,668	14,019	34,413	11,830
Paper and Millboard				
Canada	155,998	5,249	325	16
France (entering Porto Rico	478	1,795	...	...
	156,476	7,044	325	16
Shingles—				
Belgium	4,866,646	70,199	23,468,598	377,584
Canada	184,279	12,040	978,059	28,016
Denmark	...	...	77,161	1,400
France	30,000	776	44,275	779
Germany	416,387	13,522	397,817	8,619
Italy	24,010	664	212,964	2,647
Netherlands	34,048	527	6,558,333	113,478
United Kingdom	...	...	169,376	5,519
	5,555,370	97,728	31,906,583	538,142
Asbestos Cement—				
Belgium	...	...	6,300	108
Canada	146,605	1,310	7,420	205
Denmark	...	...	400	64
Germany	...	...	61,958	1,004
Italy	1,400	18	164,684	5,018
Netherlands	44,143	1,318	...	...
United Kingdom	1,857	434	29,932	983
	194,005	3,080	270,694	7,382
Other Manufactures—				
Austria	1,694	636	4,433	8,362
Belgium	13,295,490	241,251	1,448,634	22,129
Canada	99,270	2,171	11,749	636
Cuba	...	...	506	58
France	281,717	20,831	934	193

Germany	27,600	1,839	161,709	17,464
Italy	112,067	1,198	5,998	592
Japan	...	...	1,200	67
Netherlands	423,616	11,815	1,259,419	22,154
Sweden	5	24	...	...
United Kingdom ..	513,989	61,325	78,810	29,670
	14,755,448	341,090	2,973,392	101,325
Grand Total All Manufactures	*20,903,622*	*$503,755*	*35,383,879*	*$753,017*

Exports from U. S. A.

Exports of unmanufactured Asbestos for the month of December 1925, amounted to but 1 ton, valued at $100; during the same month in 1924, 106 tons, valued at $15,675 were exported.

Exports of unmanufactured Asbestos for the year 1925 amounted to 990 tons, valued at $70,846; for the year 1924, the figures were 1,134 tons, valued at $93,163.

Exports of Manufactured Asbestos Goods:

	December 1924		December 1925	
	Pounds	Value	Pounds	Value
Paper, Mlbd. & Rlbd.	201,647	$13,534	155,069	$12,202
Pipe Covg. & Cement.	271,116	18,088	412,089	28,773
Textiles, Yarn & Pkg.	96,244	61,546	82,194	50,055
Brake & Clutch Lin'g.	...	...	112,968	82,739
Magnesia & Mfrs. of.	240,824	22,670	525,599	32,568
Asbestos Roofing	4,063 sqs.	23,312	10,543 sqs.	59,973
Other Manufactures ..	136,368	39,878	130,372	24,837

Summary of Exports of Manufactured Asbestos Goods:

	1924		1925	
	Pounds	Value	Pounds	Value
Paper, Mlbd. and Rlbd.	2,171,674	$124,228	2,159,826	$119,311
Pipe Covering and Cement ..	4,848,030	288,266	4,553,452	280,082
Textiles, Yarn and Packing .	1,197,508	788,361	1,369,738	803,037
Brake and Clutch Lining	...	...	1,203,299	863,078
Magnesia and Manufactures of ...	3,120,070	243,579	5,264,203	316,978
Asbestos Roofing	48,968 sqs.	297,900	79,920 sqs.	519,114
Other Manufactures	2,728,741	787,461	2,178,744	342,151

ASBESTOS

Imports and Exports by England.

Imports of raw material.

	December 1924		December 1925	
	Tons	Value	Tons	Value
From Rhodesia	731	£21,995	1,305	£40,341
From Canada	1,343	16,640	1,283	20,060
From Other Countres ...	265	11,004	564	12,634
Total	2,339	49,639	3,152	73,035
Re-exports	184	6,479	680	20,238

Summary—Imports of raw material.

	1924		1925	
	Tons	Value	Tons	Value
From Rhodesia	11,026	£347,962	14,498	£418,042
From Canada	8,473	117,010	7,940	141,269
From Other Countries ...	3,728	89,909	4,370	99,236
Total	23,227	554,881	26,808	658,547
Re-exports	5,868	188,671	5,580	174,746

Exports of Asbestos Manufactures.

	December 1924		December 1925	
	Tons	Value	Tons	Value
To Netherlands	58	£ 3,864	30	£ 3,974
To France	57	11,699	55	9,356
To U. S. A.	8	1,220	4	935
To British India	153	7,795	351	9,848
To Other Countries	731	50,248	1,032	60,060
	1,007	74,826	1,472	84,173

Summary—Exports of Asbestos Manufactures.

	1924		1925	
	Tons	Value	Tons	Value
To Netherlands	429	£ 46,260	533	£ 49,585
To France	556	149,538	487	116,423
To U. S. A.	107	24,974	129	28,161
To British India	1,439	86,630	5,010	128,159
To Other Countries	11,425	649,448	14,529	733,892
	13,956	£956,850	20,688	£1,045,220

Exports of Raw Asbestos from Canada.

	November 1924		November 1925	
	Tons	Value	Tons	Value
United Kingdom	1,283	$ 69,905	1,082	$ 74,210
United States	6,480	344,347	8,013	424,319
Australia	3	210	180	11,840
Belgium	270	12,250	990	54,050
France	162	16,435	...	...
Germany	1,663	122,260	1,442	108,180
Italy	207	12,370	300	23,600

Japan	471	18,905	1,125	55,913
Netherlands	545	40,460	242	10,265
Other Countries	...	...	...	...
	11,084	$637,142	13,374	$762,377
Sand and Waste—				
United Kingdom	550	9,569	160	2,930
United States	10,735	134,729	13,077	153,221
France	30	600	...	...
Germany	420	8,100	403	6,545
Italy	25	500	...	...
Netherlands	190	3,050	83	1,660
Other Countries	...	...	3	50
	11,950	$156,548	13,726	$164,406
Grand Total	*23,034*	*$793,690*	*27,100*	*$926,783*

Interested in Rubber all His Life

J. Oliver Stokes, whose passing was recorded in the February issue of "ASBESTOS", was interested in the Rubber business all of his business life.

As a young man, he, with his two brothers, W. J. B. Stokes and Charles E. Stokes, formed the Home Rubber Company. Later, with W. J. B. he organized the Thermoid Rubber Company and the Joseph Stokes Rubber Company, both he and W. J. B. relinquishing their interest in the Home Rubber Company to Charles E.

At the time of his death Mr. Stokes was President of the Thermoid Rubber Company and the Stokes Asbestos Company and Treasurer of the Joseph Stokes Rubber Company, but for some years he had been in ill health and therefore spent a large portion of his time at his California home in Pasadena, making several trips East each year.

Probably No Brake Lining Either

"What's the noise down there?" asked the cop as he hurried to the scene of the accident.

"A fellow tried to turn a corner," said a bystander.

"Yes, what about it?"

"Well, there wasn't any corner."

Rhodesia[1]

Bulawayo District.	November 1925 Tons	Value
Nil Desperandum (Afr. Asb. Min. Co., Ltd.)	611	£10,280
Pangani (J. S. Hancock)	35	439
Shabanie (Rho. & Gen. Asb. Corp., Ltd.)	1,167	29,136
Lomagundi District.		
Ethel (Union & Rho. Tr., Ltd.) October	68	1,700
Victoria District.		
Gath's (R. & Gen. Asb. Corp., Ltd.)	1,282	32,047
King (R. & Gen. Asb. Corp., Ltd.)	352	8,804
	3,515	£82,406

During November of the previous year, 1,942 tons were produced, valued at £62,105.

Union of South Africa[2]

	November 1925 Tons	Value
Transvaal	691	£12,619
Cape	156	2,943
	847	£15,562

During November, 1924, 323 tons valued at £4,020 were produced.

Canada. Preliminary Statement on Mineral Production in the Province of Quebec during 1925, reaches us just as we go to press. According to this statement 4,121,258 tons of rock were mined during 1925, giving a production of 268,331 tons of all grades (not including Asbestic). The figures for 1924 were 3,324,727 tons of rock, with a production of 205,564 tons of Asbestos.

Shipments and sales of all grades (except Asbestic) during 1925 were 274,525 tons, valued at $8,982,507. Detailed comparative figures will be given in April "ASBESTOS".

1. Figures published by Rhodesia Chamber of Mines.

2. Figures published by Department of Mines and Industries for the Union of South Africa.

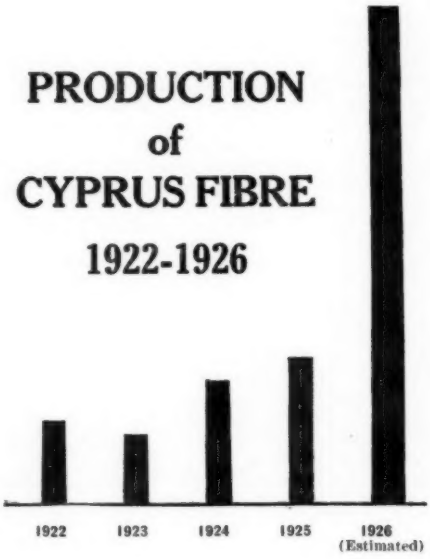
HE: What kind of shoes do you think I ought to wear with these golf hose?

SHE: Hip boots.—*Colo. Dodo.*

CYPRUS ASBESTOS COMPANY

LIMITED

PRODUCTION of CYPRUS FIBRE 1922-1926



SALES OFFICE:

49 ST. JAMES'S STREET, LONDON, S. W. 1

NEWS OF THE INDUSTRY

Birthdays. Our birthday list this month includes A. J Bromberg, President of the Crown Asbestos Corporation, New York City, whose birthday occurs on March 19th; and John F Bolger, Vice President of the Allbestos Corporation, whose birthday date is March 27th, also A. S. Farmer, President and Treasurer of the Conneross Yarn Mill, April 3rd, and A. W. Jack, President A. W. Jack Corporation, April 8th.

J. G. Tyson, President, American Asbestos Company, and M. T. Rhodes, Sales Manager of the Linear Packing Co., have just returned from Pinehurst, N. C., where they enjoyed the balmy breezes over the famous Pinehurst Golf course.

Marshall Leffler and Company, 704 E. 15th street, Kansas City, Mo., are recent entrants into the Asbestos Industry. The firm was organized on November 17th, 1925, and was recently incorporated under the laws of the State of Missouri, for the purpose of dealing in asbestos and asphalt products as jobber and contractor.

Marshall Leffler, President, has had seven years experience with Johns-Manville and for the past five years was manager of the Kansas City Branch of R. V. Aycock Company, having a wide acquaintance with the trade in the Kansas City territory.

Theo Busch, Treasurer and C. J. Bonnell, Secretary, are new to the asbestos line, but have had wide experience in other lines, and are well-known in Kansas City and adjoining sections.

Asbestos Mining and Manufacturing Company. An attractive circular has reached us treating of Hollywood Asbestos, particularly as prepared for stucco and the improvement of ordinary plaster. The circular contains besides a description of the material and its merits, formulas for plasters and stucco utilizing this Hollywood Asbestos.

Samuel Davis, formerly General Sales Manager of Consolidated Asbestos Limited, is now connected with the new merger Company, Asbestos Corporation Limited. Mr. Davis has spent the last three weeks calling on the trade in New York, Pennsylvania and Ohio.

G. D. Crabbs, President of the Philip Carey Company, recently spent a few weeks in Florida.

Clarence W. Lemmerman, formerly manager of the Contract Department of Keasbey & Mattison Company at Cleveland, has recently accepted the position of manager of the New York Branch of the Ric-Wil Company, just established at 623 Knickerbocker Building, New York City. The Ric-Wil Company are manufacturers of Tile Conduit Systems for underground pipes. Mr. Lemmerman has had long experience in underground conduit work, having been connected with Johns-Manville, Inc.,

Cleveland, before entering the employ of Keasby & Mattison Company.

Dougherty-Walling Asbestos Company. In commenting on the organization of the Dougherty-Walling Asbestos Company in the February issue, we neglected to give the location. The Dougherty-Walling Asbestos Company, is located at 69 Passaic street, Newark, N. J.

Dr. W. H. Huber, President of the Asbestos Fibre Spinning Company, has, with his family been spending a few weeks at his home in Miami, Florida, enjoying the good fishing along the coast.

The Allbestos Corporation, is now located in its new up-to-date plant at 21st and Godfrey Streets, Germantown, and extends a cordial invitation to any and all in the Asbestos Industry to visit its new quarters.

R. P. Doucet, General manager of Asbestos Corporation, Limited, is spending some little time in Europe.

Engineering News-Record in its January 28th issue, publishes an article "Tests of Cement-Asbestos Pipe", by W. S. Pardoe, Professor of Hydraulic Engineering of the University of Pennsylvania. Most of this information is covered by the article in April 1925 "ASBESTOS" on Water Pipes of Asbestos.

The Hewitt Rubber Company, Buffalo, N. Y., manufacturers of various rubber materials, including asbestos and rubber packings, gaskets, etc., and the Gutta Percha and Rubber Manufacturing Company of New York, and Brooklyn have recently effected a merging of their financial interests. The Hewitt Rubber Company is said to have one of the most modern rubber plants in the United States.

H. E. Manville, President of Johns-Manville, Inc., has returned from Bermuda.

Societe Francaise de L'Everite, Plaine St. Denis, France, manufacturers of "Everite" Asbestos Cement shingles, lumber and corrugated sheets, has recently sent us several pieces of their very attractive advertising literature, some published in French others in English. "Everite" shingles are widely known in Europe and are used to some extent in the States.

George M. Stadelman, President of the Goodyear Tire and Rubber Company of Akron, O., died suddenly at his home in Akron on January 22nd. Mr. Stadelman was 52 years of age and had headed the Goodyear Company since 1923. He had just refused the Presidency of the Rubber Association of America on the ground of ill-health.

"Power", published in New York City, makes mention in its February 2nd issue of powdered asbestos in connection with autogenous welding.

Mediterranean Asbestos Quarries, Ltd. At the meeting of this Company held in December, the Chairman, Lt. Col. H. C. Warden, C. B. E., D. S. O. stated that upon completion of the new

crushing and screening plant and the erection of a ropeway, at least 100 tons of rock a day would be crushed at the La Porta Quarries. The Company therefore, according to Col. Warden's statement is within measurable distance of the time when capital expenditure will be practically at an end and when extensive production might be expected.

The Clark Asbestos Company, Cleveland, O., has recently added to its sales force, John L. Gaffney and Carl Fahrenholze. Mr. Gaffney was formerly connected with the Carey Company of Cleveland.

The Porcupine Asbestos Corporation, Limited, has recently purchased from the Porcupine Asbestos Syndicate, the property of the latter company in Deloro Township, Porcupine Division, Ontario, head office of the Corporation being in Timmins, Ont.

It is expected that the production of crude asbestos fibre will commence before the end of March as the installation of a mining plant is about completed.

The Crude from this operation is of very good quality.

C. B. Wright, who has been connected with the Clark Asbestos Company, Cleveland, for several years, has just been presented with a eight and a half pound baby boy—another Asbestos Salesman.

A. H. Birdsall, formerly with Asbestos Limited, has accepted the position of factory manager with the Lion Asbestos Manufacturing Corporation, Bound Brook, N. J.

F. Hirschhorn, a director of the Cape Asbestos Company Limited, has recently sailed from South Africa for a trip to England.

Alvin M. Ehret, President of the Ehret Magnesia Mfg. Company, and Chas. S. Wood, of Chas. S. Wood Company, are enjoying two weeks of fine golfing at Pinehurst, N. C.

Mohawk Asbestos Slate Co. On March 1st, Harrison S. Sweet, formerly connected with the New York State Railways as Engineer in charge of rolling stock, took charge of the Oneida plant of the Mohawk Asbestos Slate Company. Mr. Sweet is a graduate of the University of Pennsylvania, class of 1912, is the patentee of the One-Man Safety Control now used on a great majority of electric cars.

T.T. Lyman, on January 1st, 1926, was appointed Manager of the Western Division of Johns-Manville, Inc.

The National Asbestos Manufacturing Company of Jersey City, N. J., has finally won permission from the city to lay a spur of track to their plant from the Lehigh Valley Railroad. They will pay the city $1,000 a year for the privilege of using the ground. The Company has been endeavoring to obtain this permit for several years.

Edward J. Pope of New Brunswick, N. J., has just published a booklet "Theory and Function of The Automobile Brake." Readers desiring a copy can obtain it from Mr. Pope, but we are unable to state whether there is a charge for this booklet or not.

RHODESIAN WHITE ASBESTOS

THE PRODUCT OF THE

NIL DESPERANDUM MINE
Shabani

TRANSVAAL WHITE ASBESTOS

SUPERFINE QUALITY

THE PRODUCT OF

THE AMIANTHUS MINE
Kaapsche Hoop

All grades of Asbestos Fibre, carefully prepared and free from grit, now produced at the above named properties, are offered for sale by

THE ASBESTOS & ELECTRICAL FITTINGS CO. LTD.

5 LLOYDS AVENUE

LONDON E. C. 3. ENGLAND

TELEGRAPHIC ADDRESS: "VULBESTON"

CODES USED { BENTLEY'S A. B. C. 5TH EDITION WESTERN UNION UNIVERSAL EDITION

AMOSITE ASBESTOS

the new long-fibred material mined in the Transvaal, South Africa

THE CHEAPEST TEXTILE ASBESTOS IN THE WORLD

SPECIAL PROPERTIES

(1) **Length of fibre**
(2) **Tensile strength**
(3) **High insulating properties**
(4) **Lightness of weight**

This Asbestos, in its various grades, has been proved eminently suitable for—

(a) **TEXTILES** (Yarn and Cloth)
(b) **ASBESTOS-CEMENT SLATES**, and corrugated roofing
(c) **BLOCKS for Boiler Insulation**
(d) **SECTIONAL COVERING**

CAPE ASBESTOS COMPANY, LTD.

23, KING STREET, CHEAPSIDE
London, E. C. 2

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The Cape Asbestos Co *Limited*

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Factory, Barking, Essex

PATENTS

Lining for Friction and Brake Bands. No. 1,571,085. Granted on January 26th, to Charles Brahs, Paterson, N. J., filed May 11, 1925. Serial No. 29,515.

Described as a new article of manufacture, a lining for transmission bands, brake bands and the like comprising a woven fabric body and pile warp threads extending there thru at an angle to the weave of the fabric.

Heat Insulating Material. No. 1,569,755. Granted on January 19th, to T. Irvin Lompoc, Cal., assignor to the Celite Company, Los Angeles, Cal., a Corporation of Delaware. Filed Dec. 24, 1924. Serial No. 757,844.

Described as follows: In the process of making molded heat insulating bodies comprising diatomaceous earth and an alkaline earth, a molding operation and a combined hardening and drying operation comprising exposure of the molded bodies to large volumes of air under pressure.

Brake Band Lining. No. 1,571,757. Granted on February 2nd, to Pearl Compton, Flint, Mich. Filed September 10, 1923. Serial No. 661,921.

Described as a brake band lining comprising an inner friction strip, a contracting member and a transversely corrugated spring interposed between the friction strip and the contracting member and adapted to support the friction strip for contact with a drum at spaced points thereabout and anchoring means securing the spring at spaced points thruout its length to said contracting member.

Brake Lining. No. 1,571,443. Granted on February 2nd to Carl Anderson, Roza, Washington, assignor of one half to Thomas C. Doolittle, Roza, filed December 12, 1924. Serial No. 755,438.

Described as a combination with slotted brake band having an integral abutment, an undergrooved lug and a bifurcate base flange, said lug of lining section having a grooved tongue adapted to engage said abutment and slidable in the slotted brake band, a second grooved tongue on said section, a spring latch on said base flange and a retaining hook on said latch adapted to engage the second tongue.

BUYERS CLASSIFIED INDEX

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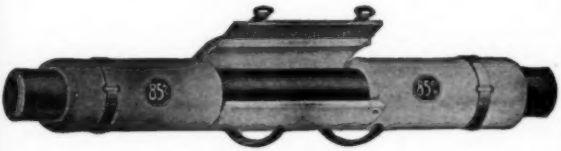

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